	Application No.	Applicant(s)	
Notice of Allowability	10/801,410	POLSTON, DAVID	L.
	Examiner	Art Unit	T
	David M. Brunsman	1755	
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this apport or other appropriate communication IGHTS. This application is subject to	plication. If not includ will be mailed in due	ed course. THIS
1. This communication is responsive to the amendment filed (<u>09 March 2006</u> .		
2. The allowed claim(s) is/are 3-12.			
 3. ☐ Acknowledgment is made of a claim for foreign priority un a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 			
2. Certified copies of the priority documents have been received in Application No			
 Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). 			
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* Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file a reply IENT of this application.	complying with the rea	quirements
4. A SUBSTITUTE OATH OR DECLARATION must be submi- INFORMAL PATENT APPLICATION (PTO-152) which give	itted. Note the attached EXAMINER reason(s) why the oath or declara	'S AMENDMENT or N tion is deficient.	OTICE OF
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.			
(a) including changes required by the Notice of Draftsperso		948) attached	
1) hereto or 2) to Paper No./Mail Date	-		
(b) including changes required by the attached Examiner's Paper No./Mail Date	Amendment / Comment or in the C	office action of	
Identifying indicia such as the application number (see 37 CFR 1.1 each sheet. Replacement sheet(s) should be labeled as such in the	84(c)) should be written on the drawir ne header according to 37 CFR 1.121(c	ngs in the front (not the d).	back) of
 DEPOSIT OF and/or INFORMATION about the depos attached Examiner's comment regarding REQUIREMENT F 	sit of BIOLOGICAL MATERIAL n FOR THE DEPOSIT OF BIOLOGICA	nust be submitted. N AL MATERIAL.	Note the
Attachment(s)			
1. Notice of References Cited (PTO-892)	5. Notice of Informal P	atent Application (PTC	D-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	 Interview Summary Paper No./Mail Dat 		
 Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date 	8), 7. 💢 Examiner's Amendn		
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. Examiner's Stateme	nt of Reasons for Allo	wance
of Biological Material	9.		

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An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

In claim 3, line 8, replace "cement of fly ash" with:--cement or fly ash--.

In claim 8, line 8, replace "cement of fly ash" with:--cement or fly ash--.

This examiner amendment merely corrects an obvious typographical error and does not materially affect the scope of meaning of the claims.

The following is an examiner's statement of reasons for allowance: The difference between the prior art of record and the instant claims is "...passing the drilling waste and aggregate through a screen...". The level of *ordinary* skill in this art and the predictability of this art are limited. Consideration of the prior art documents generally shows a limited knowledge of which chemical reactions are critical to the stabilization processes, simple trial and error experimentation and limited characterization of the chemical composition of the wastes to be treated. It appears most testing and experimentation is done under the practical supervision in the field operators without advanced training in chemistry as compared to the complex and exacting disclosure of the chemistry necessary for virgin drilling fluids to meet well defined performance requirements upon use downhole.

The teaching of the prior art that would support a finding of obviousness include the general awareness that screening is done in various fields to remove oversize materials and documents such as US 4942929 that discloses screens used with drilling fluids to screen out "gravel" (cuttings) from the fluid which gravel then may be used as a construction material.

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I.e. the use of screening *per* se is known to one of ordinary skill in the art. Evidence of record supports a finding of non-obviousness. Improper hindsight would be required to add a screening step to the relevant prior art as there is no evidence of record that "oversize" material is present or a concern.

US 4942929 teaches that the material to be later used as a construction material it that which **does not** pass the screen, as opposed to the instant case.

US 4942949 Discloses disposal of material passing screen limited to downhole injection.

The Fact Sheet – Beneficial Reuse of Drilling Wastes reference teaches reuse of material retaining on site on the shale shakers (similar to 4942949). It also teaches that the remaining coating on the cuttings may need to be removed as detrimental to reuse as construction material. It teaches away from Reuse as Construction material for drilling wastes in general ("relatively hard to reuse for construction purposes", "legal liabilities always stay with the company who produced the waste initially")

US 5277519 (column 1/23-29) teaches away from separating the components of drilling waste as it just creates another waste stream.

US 2003/127903 is representative of a large body of art showing use of the retentate from the shale shakers for reuse as construction material that, despite ample opportunity, fails to suggest using waste passing a screen.

US 6695077 teaches agglomeration of drilling waste to allow handling thereof for reuse, teaching the desirability increasing the size of the solids present in contrast to the opposite effect of screening.

There is no reason to screen drilling wastes to remove oversize materials, as the average particle size therein is about 200 microns (large pieces are not entrained in the drilling fluid to return to the surface). Nor, would it make sense to screen out larger rock cuttings and then add back in aggregate in the form of larger rock pieces.

The specification teaches (see paragraph 58) "In this manner [the claimed method] drilling waste may be effectively combined with an aggregate to form an environmentally safe road base

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capable of passing most government agency standards and engineered to pass tests to determine its structural characteristics," such that the limitation is critically to the invention.

In conclusion, the preponderance of the evidence of record supports the finding of non-obviousness for the instant claims as amended.

The patentability of the claims wherein the separator is placed above the batch mixer is addressed in previous office actions.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David M. Brunsman whose telephone number is 571-272-1365. The examiner can normally be reached on M, W, F, Sa; 6:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jerry Lorengo can be reached on 571-272-1362. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

David M Brunsman Primary Examiner Art Unit 1755

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